OWNER'S MANUAL

Power Inverter PID-200

Converts DC Battery Power to AC Household Power

Includes 12 Volt Accessory Plug with 36" Cable and USB Port

CAUTION:
Read all Safety Rules and Operating Instructions, and follow them with each use of this product.

Schumacher Electric Corporation
Mount Prospect, IL 60056 U.S.A.

Send Warranty Product Repairs to:
Customer Service Returns
P.O. Box 280, 1025 E. Thompson
Hoopeston, IL 60942-0280

Questions? Call Customer Service:
1-800-621-5485

00-99-000722/0208

IMPORTANT SAFETY INSTRUCTIONS

Save These Instructions

Before using your PID-200, read and understand this Owner's Manual.

- Keep the inverter well ventilated in order to properly disperse heat generated while it is in use. Make sure there are several inches of clearance around the top and sides and do not block the slots of the inverter.
- Make sure the inverter is not close to any potential source of flammable fumes, gases or clothing.
- Keep the inverter dry.
- DO NOT allow the inverter to come into contact with rain or moisture.
- DO NOT operate the inverter if you, the inverter, the device being operated or any other surfaces that may come in contact with any power source are wet. Water and many other liquids can conduct electricity, which may lead to serious injury.
- Do not place the inverter on or near heating vents, radiators or other sources of heat.
- Do not place the inverter in direct sunlight. The ideal air temperature for operation is between 50° and 80°F.
- Do not use the inverter near an open engine compartment.

- Only connect the Power Inverter to a 12-Volt battery accessory outlet. Make sure the AC plug connection is tight.
- Do not modify the AC receptacle in any way.
- Use only 25-amp fuses.
- This device does not include an internal Ground Fault Circuit Interrupter (GFCI). For GFCI protection, use a Coleman Cable 02822 GFCI outlet.

WARNING: Handling the cord on this product or cords associated with accessories sold with this product, may expose you to lead, a chemical known to the State of California to cause cancer and birth defects or other reproductive harm. ***Wash hands after handling.***

BEFORE USING PID-200 POWER INVERTER

It is important to know the continuous wattage of the device you plan to use with the inverter. The PID-200 must be used with devices drawing 200 watts or less. If the wattage is not marked on the device, an estimate can be made by multiplying the AC input current (Amps) by the AC voltage (110V).

Devices like TVs, fans or electric motors require additional power to start (commonly known as the “starting or peak power”). The PID-200 can supply a momentary surge in wattage; however even devices rated less than the

maximum 200 watts can exceed the inverters surge capability and cause an automatic overload shutdown.

Make sure the device you are using is compatible with a modified sine wave inverter.

OPERATING INSTRUCTIONS

How to use the 12 Volt Accessory Plug:

1. Place inverter on flat surface. Make sure the AC outlet, the ON/OFF switch and USB port are easily accessible. The 12 Volt accessory cable and plug should face toward the 12 Volt accessory outlet.

   IMPORTANT: Keep inverter well-ventilated and away from liquids and moisture at all times.

2. Make sure the ON (I) and OFF (0) rocker switch is in the OFF (0) position.
3. If necessary, remove the cigarette lighter from its outlet. Push the 12 Volt power plug firmly into the 12 Volt accessory outlet. The LED indicator light should glow GREEN verifying the inverter is receiving power.
4. Make sure the device to be operated is OFF. Plug the power cord of the device into the inverter's AC outlet.
5. Turn the inverter rocker switch to the ON (I) position. Turn the device ON.
6. To disconnect, reverse the above steps.

How to use the USB Port:

1. Follow steps 1 through 3 in How to use 12 Volt Accessory Plug.
2. Make sure the device to be operated is OFF. Plug the power cord of the device firmly into the inverter's USB port.
3. Turn the inverter rocker switch to the ON (I) position. Turn the device ON.
4. To disconnect, reverse the above steps.

POWER SOURCE

Your average automobile or marine battery at full charge will provide an ample power supply to the inverter for approximately 3 hours when the engine is off. The actual length of time the inverter will function depends on the age and condition of the battery and the power demand being placed by the device being operated with the inverter.

Turn OFF the device plugged into the inverter and the inverter before starting the engine. To maintain battery power, run the engine every 2 to 3 hours for approximately 10 minutes to recharge the battery. While the PID-200 draws very low amperage when not in use, it should be unplugged to avoid battery drain.

USAGE EXAMPLES

Device Type	Estimated Wattage
Cell Phones, MP 3 players, Camcorders	10 watts
Portable Work Light	25 watts
12" B&W TV	30 watts
CD/DVD Player	35 watts
VCR	40–60 watts
Clock Radio	50 watts
Laptop	75 watts
Stereo System	30–100 watts
Game Console (Xbox)	100 watts

DIGITAL DISPLAY

LED Lights – indicate status of the Digital Display.

The Digital Display identifies the current status of the PID-200.

INPUT VOLTAGE: Voltage of vehicle's battery.

OUTPUT VOLTAGE: Voltage supplied to device through AC receptacle.

POWER OUT: Power or wattage supplied to device plugged into the inverter.

An audio alarm will sound when the following occurs:

To stop the alarm, press the switch to OFF.

Inverter is not functional. See warranty and call Customer Service 800-621-5485 (Hours: 7 a.m. – 4:30 p.m. CST).

Vehicle's battery voltage is more than 15.5 Volts.

The continuous load demand from the device exceeds 200 watts. Use a device drawing less than 200 continuous watts.

Inverter is overheated and automatically turns off for a period of 1–3 minutes to cool. Make sure inverter is well ventilated.

Vehicle's battery voltage is less than 10.5 Volts.

Short circuit, power surge or overload in the device.

TROUBLESHOOTING

PROBLEM: Alarm is On
Reason/*Solution*

1. **Device has a short circuit or demands too much surge power.**
   Cycle inverter power OFF and ON.

   If problem persists, use a larger inverter or a smaller device.

   Remove defective device.

   See warranty and call Customer Service 800-621-5485 (Hours: 7 a.m. – 4:30 p.m. CST).

2. **Inverter shuts down.**
   12 Volt battery too low.

   Recharge/replace low battery.

3. **Display shows Input Voltage between 10.7 and 11.3 Volts.**
   12 Volt battery is low.

   Recharge/replace low battery.

4. **12 Volt voltage is too high.**
   If in a vehicle, repair/replace the alternator or charging system.

   Use a properly sized and rated 12 Volt battery.

5. **Device demands more than 200 Watts continuous power.**
   Cycle inverter power OFF and ON.

   If problem persists, use a larger inverter or a smaller device.

6. **Inverter is too hot.**
   Increase ventilation to inverter.

   Move inverter to a cooler area.

   Reduce the power consumption of the device.

PROBLEM: Inverter Does Not Turn On
Reason*/Solution*

1. **Poor contact at terminals.**
   Unplug and reinsert PID-200. Also check auxiliary plug for debris or try in another socket.

2. **Fuse is blown.**
   A blown fuse is usually caused by reverse polarity or a short circuit within the inverter. To replace, contact a qualified service technician who will diagnose the inverter and replace the fuse with the appropriate replacement.

3. **Inverter may be defective.**
   See warranty and call Customer Service 800-621-5485 (Hours: 7 a.m. – 4:30 p.m. CST).

4. **Power consumed by load may be too high.**
   Cut-off unit. Unplug load and cut unit back on without load and see if it works.

PROBLEM: Keeps Blowing Fuses
Reason*/Solution*

1. **Fuse may be rated too low.**
2. **Check auxiliary socket for debris or short.**
3. **May be bad unit.**
   Try unit in another socket.

SPECIFICATIONS

Maximum Continuous Power	200 Watts
Surge Capacity (Output Wattage)	400 Watts
No Load Current Draw	<.36 Amps
Wave Form	Modified Sine Wave
Input Voltage Range	11 – 15.5V DC
Low Battery Alarm	10.7V – 11.3V DC
Output Voltage	110V – 125V AC
Low Battery Shutdown	10.2V – 10.8V DC
High Battery Shutdown	15.0V – 16.0V DC
Optimum Efficiency	>90% max
AC Outlets	One, 110V AC 3-Prong
USB Port	One
36" Cable with 12 Volt Accessory Plug	One
Fuse	One, 25 Amp

LIMITED WARRANTY

Schumacher Electric Corporation warrants your inverter to be free from defects in material and workmanship, excepting abuse or misuse, for a period of two years from the date of sale to the original user or consumer purchaser. If your inverter malfunctions or fails within the 24-month warranty period because of a defect in material or workmanship, we will repair it without charge or replace it.

This warranty is in lieu of all other express warranties. The duration of any implied warranty, including but not limited to, any implied warranty of merchantability or fitness for a particular purpose made in respect to your unit, is limited to the period of the express warranty set forth above.

For warranty service, return your inverter **as well as proof of purchase** to the factory or a designated agent:

Schumacher Electric Corporation
Warranty Service Department
1025 E. Thompson, P.O. Box 280
Hoopeston, IL 60942-0280
Phone: 800-621-5485 (Hours: 7 a.m. - 4:30 p.m. CST)

You will be responsible for all insurance and freight or other transportation charges to the factory or point of repair. We will return your inverter freight prepaid if repair is covered under warranty. Your inverter should be properly packed to avoid damage in transit since we will not be responsible for any such damage.

In no event shall Schumacher Electric Corporation be liable for consequential damages. Some states do not allow limitations on the length of the implied warranty or the exclusion or limitations of incidental or consequential damages, so the above limitations or exclusions may not apply to you. This warranty gives you specific legal rights and you may also have other rights which may vary from state to state.